

## Product datasheet for **SC316318**

### **MET (NM\_000245) Human Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MET (NM\_000245) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MET  
**Synonyms:** AUTS9; c-Met; DFNB97; HGFR; RCCP2  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_000245 edited  
 ATGAAGGCCCGCTGTGCTTGACCTGGCATCCTCGTGCTTACCTTGGTGCAG  
 AGGAGCAATGGGAGTGTAAAGAGGCACTAGCAAAGTCCGAGATGAATGTGAATATGAAG  
 TATCAGCTTCCCAACTTACC CGGAAACACCCATCCAGAATGTATTCTACATGAGCAT  
 CACATTTTCTTGGTGCCACTAACTACATTTATGTTTTAAATGAGGAAGACCTTCAGAAG  
 GTTGCTGAGTACAAGACTGGGCCTGTGCTGGAACACCCAGATTGTTTCCCATGTCAGGAC  
 TGCAGCAGCAAAGCCAATTTATCAGGAGGTGTTTGAAAGATAACATCAACATGGCTCTA  
 GTTGTGCGACCTACTATGATGATCAACTATTAGCTGTGGCAGCGTCAACAGAGGGACC  
 TGCCAGCGACATGCTTTCCCAACAATCATACTGCTGACATACAGTCGGAGGTTCACTGC  
 ATATTCTCCACAGATAGAAGAGCCAGCCAGTGTCTGACTGTGTGGTGAAGCCCTG  
 GGAGCCAAAGTCTTTTCTGTAAAGGACCGTTCATCAACTTCTTTGTAGGCAATACC  
 ATAAATTTCTTATTTCCAGATCATCCATTGCATTGATATCAGTGAGAAGGCTAAAG  
 GAAACGAAAGATGGTTTTATGTTTTGACGGACCAAGTCTTACATTGATGTTTTACCTGAG  
 TTCAGAGATTCTTACCCATTAAGTATGTCATGCCTTTGAAAGCAACAATTTATTTAC  
 TTCTTGACGGTCCAAAGGAAACTCTAGATGCTCAGACTTTTACACAAGAATAATCAGG  
 TTCTGTTCCATAAACTCTGGATTGCATTCTACATGGAATGCCTCTGGAGTGATTCTC  
 ACAGAAAAGAGAAAAAGAGATCCACAAGAAGGAAGTGTAAATACTTCAGGCTGCG  
 TATGTCAGCAAGCCTGGGGCCAGCTTGCTAGACAATAGGAGCCAGCCTGAATGATGAC  
 ATTCTTTTGGGGTGTTCGCACAAGCAAGCCAGATTCTGCCGAACCAATGGATCGATCT  
 GCCATGTGTCATTCCCTATCAAATATGTCAACGACTTCTCAACAAGATCGTCAACAAA  
 AACAAATGTGAGATGTCTCCAGCATTTTTACGGACCAATCATGAGCACTGCTTAAATAGG  
 ACACTTCTGAGAAATTCATCAGGCTGTGAAGCGCGCCGTGATGAATATCGAACAGAGTTT  
 ACCACAGCTTTGAGCGGTTGACTTATTCATGGGTCAATTCAGCGAAGTCTCTTAACA  
 TCTATATCCACCTTCATTAAGGAGACCTACCATAGCTAATCTTGGGACATCAGAGGGT  
 CGCTTCATGCAGGTTGTGGTTTCTCGATCAGGACCATCAACCCCTCATGTGAATTTTCTC  
 CTGGACTCCCATCCAGTGTCTCCAGAAGTATTGTGGAGCATACATTAACCAAAATGGC  
 TACACACTGGTTACTGGAAGAAGATCACGAAGATCCCATTTGAATGGCTTGGGCTGC



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AGACATTTCCAGTCTGCAGTCAATGCCTCTCTGCCCCACCCCTTTGTTTCAGTGTGGCTGG  
 TGCCACGACAAATGTGTGCGATCGGAGGAATGCCTGAGCGGGACATGGACTCAACAGATC  
 TGTCTGCCTGCAATCTACAAGTTTTCCCAAATAGTGCACCCCTTGAAGGAGGGACAAGG  
 CTGACCATATGTGGCTGGGACTTTGGATTTTCGGAGGAATAATAAATTTGATTTAAAGAAA  
 ACTAGAGTTCTCCTTGGAAATGAGAGCTGCACCTTGACTTTAAGTGAGAGCACGATGAAT  
 ACATTGAAATGCACAGTTGGTCTGCCATGAATAAGCATTTCATATGTCCATAATTATT  
 TCAAATGGCCACGGGACAACAATAACAGTACATTCTCCTATGTGGATCCTGTAATAACA  
 AGTATTTTCGCCGAAATACGGTCTATGGCTGGTGGCACTTTACTTACTTTAACTGGAAAT  
 TACCTAAACAGTGGGAATTCTAGACACATTTCAATTGGTGGAAAAACATGTACTTTAAAA  
 AGTGTGTCAAACAGTATTCTTGAATGTTATACCCAGCCCAAACCATTTCAACTGAGTTT  
 GCTGTTAAATTGAAAATTGACTTAGCCAACCGAGAGACAAGCATCTTCAGTTACCGTGAA  
 GATCCCATTGTCTATGAAATTCACCAACCAAATCTTTTATTAGTGGTGGGAGCACAATA  
 ACAGGTGTTGGGAAAAACCTGAATTCAGTTAGTGTCCCGAGAATGGTCATAAATGTGCAT  
 GAAGCAGGAAGGAACTTTACAGTGGCATGTCAACATCGCTCTAATTCAGAGATAATCTGT  
 TGTACCACTCCTTCCCTGCAACAGCTGAATCTGCAACTCCCCCTGAAAACCAAAGCCTTT  
 TTCATGTTAGATGGGATCCTTTCCAAATACTTTGATCTCATTTATGTACATAATCCTGTG  
 TTTAAGCCTTTTAAAAGCCAGTGATGATCTCAATGGGCAATGAAAATGTACTGGAAATT  
 AAGGGAATGATATTGACCTGAAGCAGTTAAAGTGAAAGTGTAAAAAGTTGAAAATAAG  
 AGCTGTGAGAATATACACTTACATTCTGAAGCCGTTTTATGCACGGTCCCCAATGACCTG  
 CTGAAATTGAACAGCGAGCTAAATATAGAGTGGAAAGCAAGCAATTTCTTCAACCGTCTT  
 GGGAAAAGTAATAGTTCAACCAGATCAGAATTTACAGGATTGATTGCTGGTGTGTCTCA  
 ATATCAACAGCACTGTTATTACTACTTGGGTTTTCTGTGGCTGAAAAAGAGAAAGCAA  
 ATTAAGATCTGGGCAGTGAATTAGTTGCTACGATGCAAGAGTACACACTCCTCATTTG  
 GATAGGCTTGTAAAGTGCCCGAAGTGTAAAGCCCAACTACAGAAATGGTTTTCAAATGAATCT  
 GTAGACTACCGAGCTACTTTCCAGAAGATCAGTTTCTAATTCATCTCAGAACGGTTCA  
 TGCCGACAAGTGCAGTATCCTCTGACAGACATGTCCCCATCCTAACTAGTGGGACTCT  
 GATATATCCAGTCCATTACTGCAAAATACTGTCCACATTGACCTCAGTGTCTAAATCCA  
 GAGCTGGTCCAGGCAGTGCAGCATGTAGTATTGGGCCAGTAGCCTGATTGTGCATTTT  
 AATGAAGTCATAGGAAGAGGGCATTGTTGGTGTGTATATCATGGGACTTTGTTGGACAAT  
 GATGGCAAGAAAATTCAGTGTGTGTGAAATCCTTGAACAGAATCACTGACATAGGAGAA  
 GTTTCCCAATTTCTGACCGAGGGAAATCATCATGAAAGATTTTAGTCATCCAATGTCTC  
 TCGCTCCTGGGAATCTGCCTGCGAAGTGAAGGGTCTCCGCTGGTGGTCTACCATACATG  
 AAACATGGAGATCTTCGAAATTTCAATTCGAAATGAGACTCATAATCCAAGTGA AAAAGAT  
 CTTATTGGCTTTGGTCTTCAAGTAGCCAAAGGCATGAAATATCTTGAAGCAAAAAGTTT  
 GTCCACAGAGACTTGGCTGCAAGAAACTGTATGCTGGATGAAAAATTCACAGTCAAGGTT  
 GCTGATTTTGGTCTTGCCAGAGACATGTATGATAAAGAATACTATAGTGTACACAACAAA  
 ACAGGTGCAAAGCTGCCAGTGAAGTGGATGGCTTTGGAAAGTCTGCAAACTCAAAAAGTTT  
 ACCACCAAGTCAGATGTGTGGTCTTTGGCGTCTCCTCTGGGAGCTGATGACAAGAGGA  
 GCCCCACCTTATCCTGATGTAACACCTTTGATATAACTGTTTACTTGTGCAAGGGGAGA  
 AGACTCCTACAACCCGAATACTGCCAGACCCCTTATATGAAGTAATGCTAAAATGCTGG  
 CACCCTAAAGCCGAAATGCGCCATCCTTTTCTGAACTGGTGTCCGGATATCAGCAATC  
 TTCTCTACTTTTATTGGGGAGCACTATGTCCATGTGAACGCTACTTATGTGAACGTA AAA  
 TGTGTGCTCCATATCCTTCTCTGTTGTATCAGAAGATAACGCTGATGATGAGGTGGAC  
 ACACGACCAGCCTCCTTCTGGGAGACATCATAG

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000245 unedited  
 GAGACTTTGTATACGACTCCTATAGGGCGGCCGGAATCTCGGCACCAGCTGACTTGCTG  
 AGAGGAGGCGGGGAGGCGCGGAGCGCGTGTGGTCCCTTGCGCCGCTGACTTCTCCACTG  
 GTTCTGGGCACCGAAAGATAAACCTCTCATAATGAAGGCCCGCTGTGCTTGCACCTG  
 GCATCCTCGTCTCTGTTTACCTTGGTGCAGAGGAGCAATGGGGAGTGTAAAGAGGCAC  
 TAGCAAAGTCCGAGATGAATGTGAATATGAAGTATCAGCTTCCCAACTTACCSCGGAAA  
 CACCCATCCAGAATGTCATTCTACATGAGCATCACATTTTCTTGGTGCCACTAATACTACA  
 TTTATGTTTTAAATGAGGAAGACCTTCAGAAGGTTGCTGAGTACAAGACTGGGCCTGTGC  
 TGGAACACCCAGATTGTTTCCCATGTGAGACTGCAGCAGCAAAGCCAATTTATCAGGAG  
 GTGTTTGGAAAGATAACATCAACATGGCTCTAGTTGTCGACACCTACTATGATGATCAAC  
 TCATTAGCTGTGGCAGCGTCAACAGAGGGACCTGCCAGCGACATGTCTTCCCAACAATC  
 ATACTGCTGACATACAGTCGGAGGTTCACTGCATATTCTCCACAGATAGAAGAGCCCA  
 GCCAGTGTCTGACTGTGGTGTGAGCGCCCTGGGAGCCAAAGTCTTTCATCTGTAAAGG  
 ACCGGTTCATCAACTTCTTGTAGGCAATACCATAAATCTTCTTATTTCCAGATCATC  
 CATTGCATTTCGATATCAGTGAGACGCTAAAGAAACGAAAGATGGTTTTATGTTTTGACG  
 GACCAGTCTACATTGATGTTTTACCTGGAGTTCAGAGGATTTCTACCCATTAAGTAT  
 TG

**3' Read Nucleotide Sequence:**

>Forward primer walk for NM\_000245 unedited  
 CTGCCATGCTGTGAAATTACAGTCAGGTTGCTGATTTTGGTCTTGCCAGAGACATGTATG  
 ATAAAGAATACTATAGTGTACACAACAAAACAGGTGCAAAGCTGCCAGTGAAGTGGATGG  
 CTTTGGAAAGTCTGCAAACCTCAAAGTTTACCACCAAGTCAGATGTGTGGTCTTTGGCG  
 TGCTCCTCTGGGAGCTGATGACAAGAGGAGCCCACTTATCCTGATGTAACACCTTTG  
 ATATACTGTTTACTTGTGCAAGGGAGAAGACTCCTACAACCCGAATACTGCCAGACC  
 CCTTATATGAAGTAATGCTAAAAATGCTGGCACCCCTAAAGCCGAAATGCGCCATCCTTTT  
 CTGAACTGGTGTCCCGATATCAGCAATCTTCTACTTTTATTGGGGAGCACTATGTCC  
 ATGTGAACGCTACTTATGTGAACGTAATAATGTGTCGCTCCATATCCTTCTGTTGTCAT  
 CAGAAGATAACGCTGATGATGAGGTGGACACAGACCAGCCTCTTCTGGGAGACATCAT  
 AGTGCTAGTACTATGTCAAAGCAACAGTCCACACTTTGTCCAATGGTTTTTCACTGCCT  
 GACCTTTAAAAGGCCATCGATATTCTTTGCTCTTGCCAAAATTGCACTATTATAGGACTT  
 GTATTGTTATTTAAATTACTGGATTCTAAGGAATTTCTTATCTGACAGAGCATCAGAACC  
 AGAGCTTGGTCCACAGGCCACGGACCAATGGCCTGCAGCCGTGACAACACTCCTGTCAT  
 ATTGGAGTCCAAAACCTGAATTCTGGGTTGAATTTTTTAAAAATCAGTACCATTGATTT  
 CATATGGGAAATTGAAGCAGAAATATTGAGGCTTCTTGATCACAGAAAACCTCAGAGAGAA  
 AGTAATGCTCAGACAGGAGCGGCAGCCCAAG

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_000245

**Insert Size:**

5000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.NA

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_000245.2](#), [NP\\_000236.2](#)

**RefSeq Size:** 6641 bp

**RefSeq ORF:** 4173 bp

**Locus ID:** 4233

**UniProt ID:** [P08581](#)

**Cytogenetics:** 7q31.2

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:** Adherens junction, Axon guidance, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, Epithelial cell signaling in Helicobacter pylori infection, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma

**Gene Summary:**

This gene encodes a member of the receptor tyrosine kinase family of proteins and the product of the proto-oncogene MET. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that are linked via disulfide bonds to form the mature receptor. Further processing of the beta subunit results in the formation of the M10 peptide, which has been shown to reduce lung fibrosis. Binding of its ligand, hepatocyte growth factor, induces dimerization and activation of the receptor, which plays a role in cellular survival, embryogenesis, and cellular migration and invasion. Mutations in this gene are associated with papillary renal cell carcinoma, hepatocellular carcinoma, and various head and neck cancers. Amplification and overexpression of this gene are also associated with multiple human cancers. [provided by RefSeq, May 2016]

Transcript Variant: This variant (2) uses an alternate in-frame splice junction at the end of an exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.